

# 5-10ES-T

The professional three-phase storage system  
for residential and commercial facilities



Colour graphic display



Portal for monitoring  
including free APP



Emergency power capability



Compact dimensions

*More. Future.*

## Technical specifications

	5ES-T	6ES-T	8ES-T	10ES-T
<b>DC Inputs</b>				
Maximum input power	7.5 kW	9.0 kW	12.0 kW	15.0 kW
Maximum input voltage	1,000 V			
Minimum input voltage	200 V			
Nominal input voltage	720 V			
PV MPPT voltage range	150 V - 950 V			
DC voltage range - independent MPPT	385 V - 850 V @ 5 kW	500 V - 850 V @ 6.5 kW	655 V - 850 V @ 8.5 kW	770 V - 850 V @ 10 kW
DC voltage range - MPPT connected in parallel	290 V - 850 V	350 V - 850 V	425 V - 850 V	460 V - 850 V
Maximum power x MPPT	5 kW	6.5 kW	8.5 kW	10 kW
Maximum input current x MPPT	13 A	13 A	13 A	13 A
Short-circuit current x MPPT	15 A	15 A	15 A	15 A
Number of MPPT	2			
Maximum number of strings x MPPT	1			
<b>Battery charge</b>				
Battery type	Lithium			
Battery voltage range	170 V - 500 V			
Maximum current	25 A			
Battery nominal voltage	200 V	240 V	320 V	400 V
Maximum charging / discharging power	5 kW	6 kW	8 kW	10 kW
<b>AC output</b>				
Mains connection	Three-phase			
Apparent power $S_n$	5 kVA	6 kVA	8 kVA	10 kVA
Maximum active power P	5 kW	6 kW	8 kW	10 kW
AC voltage range	400 Vac $\pm$ 15 % <sup>1</sup>			
Output nominal current	7.2 A	8.7 A	11.5 A	14.5 A
Mains nominal frequency	50 Hz			
Frequency range	47 Hz - 53 Hz <sup>1</sup>			
Cos $\varphi$	1 (adj $\pm$ 0.80)			
THD	< 3 %			
<b>Operating performance</b>				
Maximum Efficiency	97.6 %			
European efficiency	97 %			
Battery typical efficiency	96 %			
<b>Protective devices</b>				
DC polarity reversal	As standard			
BATTERY polarity reversal	As standard			
BATTERY overload protection	As standard			
AC short-circuit protection	As standard			
Isolation monitoring unit	As standard			
Interface protection and anti-islanding	In compliance with local legislation			
RCMU (Residual Current Monitoring Unit)	As standard			
DC Overvoltage protective device (MOV + SURGE PROTECTOR)	As standard			
AC Overvoltage protective device (MOV + SURGE PROTECTOR)	As standard			
BATTERY Overvoltage protection (MOV)	As standard			



The quality management system of SOLARMAX GmbH is certified according to ISO 9001.  
The environmental management system is certified according to ISO 14001.

1) The range depends on the grid connection standard valid in the country of installation.

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Until  
**10 YEARS**  
Warranty

## Technical specifications

	5ES-T	6ES-T	8ES-T	10ES-T
<b>Equipment</b>				
DC connector	Quick coupling, Type Amphenol (in the scope of delivery)			
AC connector	Screw terminal strip, M25 cable gland			
BATTERY connection	Quick coupling, Type Phoenix Contact (in the scope of delivery)			
DC isolator	As standard			
BATTERY automatic isolator	Integrated			
AC-BY-PASS switch	As standard			
Display	LCD-Farbtouchscreen 4.3"			
Interface	USB, CAN Bus, Ethernet, RS485, WLAN			
Data logger	Integrated			
Warranties	5 years (as standard), 10 years (optional)			
<b>Ambient conditions</b>				
Ambient temperature	- 20 °C ... + 60 °C			
Power derating temperature range	+ 40 °C ... + 60 °C			
Storage temperature	- 30 °C ... + 70 °C			
Relative humidity	5 % ... 95 % (without condensation)			
Noise levels	< 50 dB(A) @ 1 m			
Maximum operating altitude	2,000 m (without derating)			
<b>General data</b>				
Protection rating	IP21			
Overvoltage category (IEC 62109-1)	II (DC-, battery-inputs) III (AC output)			
Ventilation	I-cool (fan)			
Dimensions (W x H x D)	476 mm x 735 mm x 170 mm			
Weight	25 kg			
Fitting system	Wall bracket			
<b>Safety</b>				
Protection class	I			
DC to AC isolation level	Transformerless			
BATTERY to AC and DC isolation level	Transformerless			
Certifications	CE			
EMC and Safety standards	EN 62109-1; EN 62109-2; EN 61000-6-3; EN 61000-3-2; EN 61000-3-3; EN 61000-3-11; EN 61000-3-12; EN61000-6-2			
Mains connection standards	VDE AR-N 4105			



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